

ULTRASONIC BONE EVALUATING DEVICE

Publication number: JP10137239 (A)

Publication date: 1998-05-26

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Classification:

- **International:** A61B8/00; A61B8/08; A61B8/00; A61B8/08; (IPC1-7): A61B8/00

- **European:**

Application number: JP19960296883 19961108

Priority number(s): JP19960296883 19961108

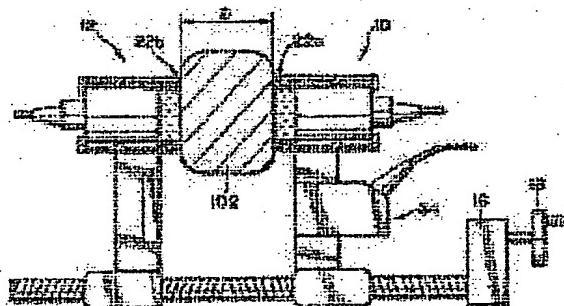
Also published as:

JP3119825 (B2)

Abstract of JP 10137239 (A)

PROBLEM TO BE SOLVED: To exactly find the crushing amount of a matching body when a vibrator unit is bonded to a subject with a prescribed pressure, in a bone evaluating device for transmitting and receiving ultrasonic waves while holding the subject between a pair of vibrator units.

SOLUTION: A reference body 102 having known thickness D is inserted between a pair of vibrator units 10 and 12 and by reducing a distance between the units, that reference body 102 is sandwiched with a prescribed pressure. In this case, the inter-unit distance is measured by a laser displacement gage 34 and by subtracting D from that measured result, the crushing amount of matching bodies 22a and 22b (thickness in crushing state) is operated. After measurement is performed while holding the subject between a pair of vibrator units 10 and 12, while utilizing the measured result and the crushing amount, sonic velocity in the subject is operated.



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